

Engine Accessories

- ◆ Medium-duty air cleaner
- ◆ Oil and fuel filters
- ◆ Fuel-lift pump
- ◆ 12 V electric starting system

Alternator Specification

- ◆ Single-bearing, 4-pole brushless alternator
- ◆ Solid state AVR with ±1.5% voltage regulation as standard
- ◆ Class “H” insulation on the rotor and stator
- ◆ IP23 protection class

Optional Items

- ◆ Residential exhaust silencer for open sets (as fitted to acoustic version)
- ◆ AMF upgrade kit
- ◆ Basic tool kit

Control Cubicle

All sets have a control cubicle mounted on a vibration-isolated support, which has the following features:

- ◆ Automatic shutdown protection
- ◆ Emergency stop button (lock-down type)
- ◆ AC output circuit breaker with over-current protection
- ◆ DC circuit control switch and overload circuit breaker
- ◆ Automatic solid-state 4-Amp battery charger
- ◆ Electronic digital control module with monitoring/control facility and warning indicators

The control module gives digital readouts of:

- ◆ Generator voltage (phase-to-phase and phase-to-neutral)
- ◆ Generator current (each phase displayed separately)
- ◆ Output frequency
- ◆ Engine speed
- ◆ Battery voltage
- ◆ Hours run

The control module has indicators for:

- ◆ Overspeed/underspeed
- ◆ Emergency stop
- ◆ Engine oil pressure
- ◆ Engine temperature
- ◆ Failure to start
- ◆ Battery charger failure

Automatic shutdown occurs under:

- ◆ Low engine oil pressure
- ◆ High engine temperature
- ◆ Overspeed/underspeed
- ◆ Failure to start after three attempts

Manual/Remote Start Sets

These sets have the flexibility of either manual or remote automatic operation:

- ◆ Manual operation is by **START** and **STOP** push-buttons on the control module
- ◆ Remote operation is achieved by connecting a 2-wire circuit to the relevant terminals on the control module and is activated by setting the control module to **AUTO**

Automatic Mains Failure Sets (AMF)

The AMF specification provides that In the event of a mains failure the generating set will automatically operate to supply the electrical load.

Automatic mains failure sets have the following additional features:

- ◆ Wall-mounted cubicle governing automatic mains failure operation
- ◆ Control module timer circuits set to **delay start, delay transfer back to mains** and **delay stop** to allow for engine cooldown
- ◆ solid-state automatic battery charger that maintains charge when set is not running

The wall-mounted cubicle features:

- ◆ mains monitoring unit to control set operation
- ◆ load-transfer contactors, mechanically and electrically interlocked (rated for set output)
- ◆ indicator for mains-on-load or plant-on-load
- ◆ switch allowing manual operation of the load-transfer contactor if automatic system fails and set is started manually

Power Outputs to ISO 8528-1¹

Air-Cooled Genset Power Outputs				
50 Hz 1500 r/min				
		Single-Phase	Three-Phase	
		220V 230 V 240 V	380/220 V 400/230 V 415/240 V	
Model	Engine	Rating	kVA	kVA
A6(A)	TR1	Prime	4.1	5.3
		Standby	4.5	5.9
A13(A)	TR2	Prime	8.6	11.2
		Standby	9.4	12.3
A20(A)	TR3	Prime	14.0	18.1
		Standby	15.4	19.5

Approximate Fuel Consumption		
		Litres/Hour
Genset	Load	50 Hz, 1500 r/min
A6(A)	100%	1.5
	75%	1.2
A13(A)	100%	3.1
	75%	2.4
A20(A)	100%	4.6
	75%	3.6

Acoustic Set Sound-Pressure Levels ²	
dBA, at 75% load	
Genset	50 Hz, 1500 r/min
A6(A)	64
A13(A)	64
A20(A)	64

1. Standby ratings are not available for acoustic canopied generating sets which are limited to operating at maximum 40°C.
 2. Noise levels are in accordance with European Noise Directive 2001/14/EC.

Approximate Dimensions					
Open generating set model:		A6	A13	A20	
	Length (A)	mm	1442	1442	1442
		in	56.8	56.8	56.8
	Width (B)	mm	715	715	715
		in	28.1	28.1	28.1
	Height (C)	mm	1020	1020	1020
		in	40.2	40.2	40.2
Acoustic generating set model:		A6(A)	A13(A)	A20(A)	
	Length (A)	mm	1693	1693	1693
		in	66.6	66.6	66.6
	Width (B)	mm	743	743	743
		in	29.2	29.2	29.2
	Height (C)	mm	1143	1143	1143
		in	45.0	45.0	45.0

Weight							
		Open Sets			Acoustic Sets		
		A6	A13	A20	A6 (A)	A13 (A)	A20 (A)
Dry weight	kg	358	428	518	555	625	715
	lb	789	943	1142	1224	1378	1576

A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Hawkpower distributor. (See panel below.)

Distributor's Address

Hawkpower have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.

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T-Series Air-Cooled Gensets

POWERED BY LISTER PETER ENGINES

50 Hz; 1500 r/min; power outputs: 4.1–19.5 kVA

Air-cooled generating sets with electronic control module



Acoustic Set (A)



Open Set

Choice of:

- ✓ Lister Petter T-Series air-cooled, direct injection, naturally aspirated diesel engine (one, two or three cylinders)
- ✓ Open set or acoustic set (A)

- ◆ Operators' Handbook
- ◆ Electrical diagrams

Open Sets Only:

- ◆ Engine-mounted exhaust silencer

Standard Features

- ◆ Lister Petter T-Series engine as above
- ◆ Control system with electronic digital control module (for features see page 3)
- ◆ Single-bearing, 4-pole brushless alternator
- ◆ 66-litre polypropylene fuel tank with contents gauge
- ◆ Galvanised steel base-plate with forklift pockets and bunding for the fuel tank
- ◆ Anti-vibration mountings
- ◆ 12 V starter battery and leads

Acoustic Sets Only:

- ◆ Acoustic canopy
- ◆ Residential exhaust silencer
- ◆ Central point lifting eye
- ◆ External emergency stop button